CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/NVR/CSR-04/325b/CEMENT/2017-18 Date: 20.04.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
*** Name of Work**	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
*** Sample ID**	:	Cement -- Sample 2
Sample Received on	:	19.04.2017
Period of Testing	:	19.04.2017 to 20.04.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P Bangalore.

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Job No.: CTCE/BBMP/W.No.08/NVR/CSR-04/325b/SAND-Gradation/2017-18 20.04.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of Work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	Fine Aggregates – Sample 2
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	19.04.2017
Date of Testing	:	20.04.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.10	90-100	90-100	90-100	95-100
2.36	77.10	60-95	75-100	85-100	95-100
1.18	56.10	30-70	55-90	75-100	90-100
600 Micron	31.10	15-34	35-59	60-79	80-100
300 Micron	15.90	5-20	8-30	12-40	15-50
150 Micron	5.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Assistant Executive Engineer
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Job No.: CTCE/BBMP/W.No.08/NVR/CSR-04/325b/AGG/GR/2017-18 20.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of Work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	Coarse Aggregates (40mm) – Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	19.04.2017
Date of Testing	:	20.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.54	95-100	85-100
20	32.50	30-70	0-20
10	15.98	10-35	0-5
4.75	4.34	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of Work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	Coarse Aggregates (20mm) – Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	19.04.2017
Date of Testing	:	20.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.22	95-100	85-100
10	36.22	25-55	0-20
4.75	5.72	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.08/NVR/Steel/2017-18 20.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.04.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.08/NVR/Steel/2017-18 20.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.04.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.35	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.08/NVR/CSR-04/325b/Cube/2017-18

23.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of the work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2017	23.05.2017	8.192	474.9	21.11
2	25.04.2017	23.05.2017	8.298	490.2	21.79
3	25.04.2017	23.05.2017	8.358	506.4	22.51

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Job No.: CTCE/BBMP/W.No.08/NVR/CSR-04/325b/Cube/2017-18 23.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of the work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2017	23.05.2017	8.285	482.5	21.44
2	25.04.2017	23.05.2017	8.329	493.6	21.94
3	25.04.2017	23.05.2017	8.456	516.5	22.96

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Job No.: CTCE/BBMP/W.No.08/NVR/CSR-04/325b/Cube/2017-18 25.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of the work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2017	25.05.2017	8.190	478.2	21.25
2	27.04.2017	25.05.2017	8.229	496.8	22.08
3	27.04.2017	25.05.2017	8.380	512.8	22.79

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of the work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2017	25.05.2017	8.138	510.3	22.68
2	27.04.2017	25.05.2017	8.228	520.4	23.13
3	27.04.2017	25.05.2017	8.359	535.6	23.80

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Job No.: CTCE/BBMP/W.No.08/NVR/CSR-04/325b/Precsat slab/2017-18 27.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy,** #92, 7th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore - 560 086.
* Name of sub work	:	Construction of Cement Concrete Road and Improvements to drain in BB Nagara and Maruthinagara in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	AEE/KH/QC/PR/31/2017-18 Dated: 19.04.2017
* Sample ID	:	Precsat slab
* Grade of Concrete	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	22.04.2017
Date of Testing	:	27.04.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.406	2521.64	1.64	0.961	23.65	12.04	13.01	13.53	16.92
2	50.00	83.00	0.410	2515.80	1.66	0.963	24.85	12.66	13.67	13.17	16.46
3	50.00	80.00	0.406	2584.68	1.60	0.957	27.25	13.88	14.99	14.34	17.93

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